<u>CITY OF BLOOMINGTON</u> 2016-201 NORMANDALE BLVD STREET IMPROVEMENT PROJECT

SP 107-020-65 SP 027-634-009 STPM 2716 (052)

Issued: August 8, 2016

The Contractor shall note the following changes and clarifications included in this Addendum #1. Plan sheets 1, 4, 10, 23A-23D, 64, and 81 have changed and are issued with this addendum. Plan sheets 2, 3 and 17 have changed, but are <u>not</u> reissued with this addendum.

A revised Proposal form and Contract is included with this addendum. The Proposal form and Contract that is bound in the specification book is no longer valid.

RESPONSES TO BIDDER'S QUESTIONS

The Contractor shall note the following changes and clarifications.

- Q1: The FADR does not address the sheet pile wall. Without the geotechnical report addressing the sheet pile wall design parameters we are unable to develop a design (or verify the plan's sheet pile design). The city must have worked with a geotechnical consultant to determine the embedment depths but there is no documentation to support the design that we can verify. Is there more information for us to use to come up with a preliminary design for bidding purposes?

 A1: There is no additional information that the City can provide. Please include any additional geotechnical work necessary for the wall design in the bid price.
 - **Q2**: Please find our submittal documentation to pre-approve the Preserver[™] as an alternate to the SAFL Baffle on the Normandale Boulevard improvement project.
 - **A2**: Upon review of the provided information and other available information, the City concludes the Preserver is not approved as an approved equal to the SAFL Baffle and will not be permitted as an approved equal on the project.
 - **Q3:** Does the City have any vacant lots that the contractor could utilize for crushing exiting pavement to make gravel for the Normandale Project? Also, would the City allow crushing onsite?
 - **A3:** The City does not own any vacant lots nearby that could be used for crushing. With the zoning of the adjacent areas being residential, crushing would not be allowed on-site.

PLAN CHANGES

The following changes shall be made in the Plans:

- 1. Sheet No. 1 is hereby deleted and preplaced with the attached Sheet No. 1. This sheet is being reissued for the updated index which now includes 204 sheets.
 - Changed the sheet number to 17-23**D** for the Details & Standard Plates under the Index.

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- Changed the total number of sheets to 204.
- 2. Sheet No. 2 is hereby modified. A replacement sheet is not being issued.
 - Add a Planned (P) Quantity to 2105.523 Common Borrow (CV) (P). The total quantity remains at 1194 CY.
- 3. Sheet No. 3 is hereby modified. A replacement sheet is not being issued.
 - Changed the quantity of 2533.508 "Relocate Port Precast Conc Bar Des 8337" for a total of 8044.
- 4. Sheet No. 4 is hereby deleted and replaced with the attached Sheet No. 4, dated 8/8/2016 in the Revision Block. This sheet is being reissued for added items and revised quantities.
 - Added the item of 2554.501 "Traffic Barrier Design Special" for a total of 25 LF
 - Changed the quantity of 2554.501 "Traffic Barrier Design B8338" for a total of 75 LF
 - Deleted the item of 2554.521 "Anchorage Assembly Plate Beam"
 - Deleted the item of 2554.523 "End Treatment Tangent Terminal"
 - Added the item of 2554.523 "End Treatment Energy Absorbing Terminal" for a total of 1
 (EA)
 - Changed the quantity of 2554.615 "Relocate Impact Attenuator" to 7 Amby
 - Changed Note 17 "Shall be CAT-350, Brakemaster or X-MAS"
- 5. Sheet No. 10 is hereby deleted and replaced with the attached Sheet No. 10, dated 8/8/ 2016 in the Revision Block. This sheet is being reissued to update Tab J with the revised guardrail information as listed on the SEQ.
- 6. Sheet No. 17 is hereby modified. A replacement sheet is not being issued.
 - Modified MnDOT Standard Plate 8318C title to Guardrail Anchorage Plate for Bridges and BCT's
- 7. Sheets 23A-23D are hereby added to include the MnDOT Standard Plans: Guardrail Installations at Medians (3 sheets) and Guardrail Installation at Medians and End Treatments (1 sheet)
- 8. Sheet No. 64 is hereby deleted and replaced with the attached Sheet No. 64, dated 8/8/2016 in the Revision Block. This sheet is being reissued to modify the note regarding the Traffic Barrier Design Special and End Treatment Energy Absorbing Terminal.
- 9. Sheet No. 81 is hereby deleted and replaced with the attached Sheet No. 81, dated 8/8/2016 in the Revision Block. This sheet is being reissued to modify the fire hydrant location at the church driveway 5' to the east.

SPECIFICATION CHANGES

The following changes shall be made in the Specifications:

1. The following change shall be made to Division S:

CITY OF BLOOMINGTON 2016-201 NORMANDALE BLVD STREET IMPROVEMENT PROJECT

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Under S-20 (1404) MAINTENANCE OF TRAFFIC (1707) PUBLIC SAFETY AND (2563) TRAFFIC CONTROL, A. <u>TRAFFIC CONTROL</u>, Item 1. Add the following after the third sentence: The Contractor shall provide a traffic control layout for work to occur in 2016 behind the existing curb. Pavement removal in 2016 will not be permitted without permission of the Engineer.

- The following change shall be made to Division S:
 Under S-41 (1803;1806) SCHEDULE, COMPLETION DATE, EXECUTION AND APPROVAL OF CONTRACT, B. Working Days, delete the third sentence of the first paragraph that describes Completion.
- 3. The following change shall be made to Division S: Under S-41 (1803;1806) SCHEDULE, COMPLETION DATE, EXECUTION AND APPROVAL OF CONTRACT, B. Working Days, <u>Winter Suspension</u> replace the section with the following paragraphs:

On or before November 15, of any given year, all available driving surfaces (roadways, driveways, and entrances) within the Project limits shall be paved with an adequate thickness of bituminous and opened for the safe and convenient use of the lanes, including turn lanes and bypass lanes, by the traveling public for the winter. The bituminous surfaces may be the existing surfacing, the new bituminous wear or non-wear course, or a temporary surfacing placed at the Contractor's expense. Other items of work which must be completed prior to opening the roadways to traffic are traffic signs and pavement markings. The Contractor will be responsible for all maintenance work, including signing, during the winter suspension except the snow plowing of the roadway open to the traveling public which will be done by City and County forces.

The exception to this will be for the traffic control necessary to install the sheet piling wall. Concrete barriers and attenuators will be permitted on the roadway as long as there is a minimum of 4' from the open traffic lane line to the barrier to provide adequate room for snow removal/storage during winter operations.

This provision for opening the roadways to traffic on or before November 15, of any given year, shall apply regardless of the specified working days allowable for the Project or the status of the working days charged as of the date the roadway is opened to traffic. Opening the roadways will have no effect on the charging of working days for any remaining uncompleted portions of the Project.

4. The following change shall be made to Division S: Under S-41 (1803;1806) SCHEDULE, COMPLETION DATE, EXECUTION AND APPROVAL OF CONTRACT, B. Working Days, <u>Final Completion</u>, add "except punch list work." to the end of the sentence.

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5. The following change shall be made to Division S:
Under S-41 (1803;1806) SCHEDULE, COMPLETION DATE, EXECUTION AND APPROVAL OF
CONTRACT, C. Insurance Requirements add the following sentence:

The Contractor will require the subcontractor to have the same policy requirements as listed below, and where applicable will require the subcontractor to provide a certificate of insurance and an actual policy endorsement that names the City and County as an additional insured on the subcontractor's policies.

6. The following change shall be made to Division S:
Under S-41 (1803;1806) SCHEDULE, COMPLETION DATE, EXECUTION AND APPROVAL OF
CONTRACT, C. <u>Insurance Requirements</u>, 4. Professional Liability, add the following sentence:

Contractor, and any of its subcontractors, must provide the City and County with a certificate of insurance evidencing the appropriate limits of such coverage.

7. The following change shall be made to Division S:
Under S-66 (2411) PREFABRICATED MODULAR BLOCK WALL (PMBW) WITH AND WITHOUT SOIL
REINFORCEMENT, add the following sentence to the end of the third paragraph:

A cap block, matching the Limestone finish, shall be provided on the top of all the prefabricated modular block walls.

8. The following change shall be made to Division S: Under S-119 (2571) PLANT INSTALLATION, add the following sentences to the end of the last paragraph:

The Contractor will be required to coordinate the planting of these trees with the Engineer to ensure the functionality of the Filtration Trench and the long term viability of the trees. This may require the cutting or other modification of the filter fabric to ensure long term root growth.

9. The following change shall be made to Division S: Under S-135 ESTIMATE OF QUANTITIES, add the following items:

Concrete Barrier/Impact Attenuator – install or relocate Striping, Pavement Messages and Striping Removal (for temporary traffic control)

The Contractor shall include this addendum, along with the revised proposal form, when submitting their bid.

<u>CITY OF BLOOMINGTON</u> 2016-201 NORMANDALE BLVD STREET IMPROVEMENT PROJECT

SP 107-020-65 SP 027-634-009 STPM 2716 (052)

,	
Julie M. Long, P.E.	Contractor Name
Civil Engineer, Infrastructure License No. 25847	
	Printed Name
	Signature
	Title
	Date

CONTRACT AND PROPOSAL

PROPOSAL

CITY OF BLOOMINGTON

The City Council
City of Bloomington
City Hall
1800 West Old Shakopee Road
Bloomington, MN 55431

*** Bids to be received at the location as stated in the Invitation for Bids ***

Dear Council members:

In accordance with the "Invitation for Bids", inviting proposals for the construction of:

2016-201 Normandale Street Improvement Project

Herein before described and in conformity with the Plans and Specifications on file in the office of the City Engineer, Bloomington, Minnesota, the undersigned hereby certifies that an examination has been made of the Plans and Specifications and the site of the work; and hereby proposed to furnish all necessary machinery, equipment, tools, labor, and other means of construction and to furnish all materials specified and in the manner and at the time prescribed; and understands that the quantities of work shown herein are approximate only and are subject to increase and decrease and further understands that the quantities of work (whether increased or decreased) are to be performed at the following unit prices:

City of Bloomington Contractor Information Sheet

The undersigned agrees, if awarded the Contract, to execute the Contract and undertake the work as stated in these contract documents. The undersigned further agrees to provide the required bonds, insurance and/or guarantees. Accompanying this Proposal is a 5% Bid Security which is subject to forfeiture in event of default by the undersigned. In submitting this bid, it is understood that the City reserves the right to reject any or all bids, and to award the project based on the proposal the City determines to be in its best interest, and it is agreed that this bid may not be withdrawn for a period of thirty (30) days from the opening thereof.

Is your firm in compliance with	EEO requirements?	Yes	☐ No	
Do you have a safety program i	n place?	Yes	☐ No	
Provide your Experience Modif the past three (3) years.	ication Rate (EMR or	MOD) for worke	ers compensation fo	or
20 EMR/MO	OD:			
20 EMR/MO	OD:			
20 EMR/MO	OD:			
For a new firm who has not yet the following information:	established an Experie	nce Modificatio	n Rate, please prov	ide
 A summary of any and all a date, and Contact information for you 			that have occurred	to
If a corporation, what is the stat	e of incorporation?			
If a partnership, state full names	s of all co-partners.			
Official Address:	N	ame of Compan	y:	
	В	y:		
	B	y:		
Date:	T DLLUSION AFFIDAV		IDDED	

STATE OF MINNESOTA)

ITEM NO.	ITEM DESCRIPTION	<u>UNIT</u>	ESTIMATED	UNIT PRICE	EXTENSION
2011.601	CONSTRUCTION SURVEYING	LS	1		
2021.501	MOBILIZATION	LS	1		
2041.610	TRAINEES	HOUR	1,500		
2101.501	CLEARING	ACRE	3.9		
2101.502	CLEARING	TREE	25		
2101.506	GRUBBING	ACRE	3.9		
2101.507	GRUBBING	TREE	20		
2102.502	PAVEMENT MARKING REMOVAL	LF	5,593		
2104.501	REMOVE WATER MAIN	LF	176		
2104.501	REMOVE SEWER PIPE (STORM)	LF	3,292		
2104.501	REMOVE SEWER PIPE (SANITARY)	LF	84		
2104.501	REMOVE CURB & GUTTER	LF	12,753		
2104.501	REMOVE RETAINING WALL	LF	358		
2104.501	REMOVE WOOD RETAINING WALL	LF	1,100		
2104.501	REMOVE FENCE	LF	83		
2104.501	REMOVE CHAIN LINK FENCE	LF	113		
2104.501	REMOVE WOOD FENCE	LF	987		
2104.501	REMOVE GUARDRAIL	LF	128		
2104.505	REMOVE CONCRETE WALK	SY	677		
2104.505	REMOVE BITUMINOUS PAVEMENT (P)	SY	43,729		

ITEM NO.	ITEM DESCRIPTION	<u>UNIT</u>	ESTIMATED	UNIT PRICE	EXTENSION
2104.509	REMOVE LIGHTING UNIT	EACH	1		
2104.509	REMOVE MANHOLE OR CATCH BASIN	EACH	42		
2104.509	REMOVE CASTING	EACH	2		
2104.509	REMOVE HYDRANT	EACH	5		
2104.509	REMOVE SIGN	EACH	54		
2104.513	SAWING BIT PAVEMENT (FULL DEPTH)	LF	8,006		
2104.521	SALVAGE CHAIN LINK FENCE	LF	30		
2104.521	SALVAGE WOODEN FENCE	LF	85		
2104.523	SALVAGE WOOD POST	EACH	2		
2104.523	SALVAGE LIGHTING UNIT	EACH	2		
2104.523	SALVAGE SIGN	EACH	30		
2104.523	SALVAGE MAIL BOX SUPPORT	EACH	5		
2104.602	SALVAGE SIGN SPECIAL	EACH	2		
2104.602	SALVAGE ORNAMENTAL METAL GATE	EACH	2		
2105.501	COMMON EXCAVATION (EV) (P)	CU YD	58,663		
2105.522	SELECT GRANULAR BORROW (CV)	CY	33,861		
2105.522	SELECT GRANULAR BORROW MOD 10% (CV)	CY	7,241		
2105.523	COMMON BORROW (CV) (P)	CY	1,194		
2105.601	DEWATERING	LS	1		
2105.607	EXCAVATION SPECIAL (EV), MUCK	CY	10,911		

ITEM NO.	ITEM DESCRIPTION	<u>UNIT</u>	ESTIMATED	UNIT PRICE	<u>EXTENSION</u>
2123.610	STREET SWEEPER (WITH PICKUP BROOM)	HOUR	168		
2130.501	WATER	MGAL	112		
2211.501	AGGREGATE BASE CLASS 5 (P)	TON	25,357		
2301.602	DRILL & GROUT REINF BAR (EPOXY COATED)	EACH	127		
2357.502	BITUMINOUS MATERIAL FOR TACK COAT	GAL	7,488		
2360.501	TYPE SP 4.75 WEARING COURSE MIX (2,B)	TON	32		
2360.501	TYPE SP 12.5 WEARING COURSE MIX (2,B)	TON	1,798		
2360.501	TYPE SP 12.5 WEARING COURSE MIX (4,F)	TON	7,510		
2360.502	TYPE SP 19.0 NON WEAR COURSE MIX (4,B)	TON	13,126		
2360.505	TYPE SP 12.5 BIT MIXTURE FOR PATCHING	TON	1,572		
2411.603	REINFORCED CONCRETE CAP	LF	1,615		
2411.618	PREFABRICATED MODULAR BLOCK WALL	SF	33,093		
2451.607	CRUSHED ROCK (CV)	CY	1,866		
2452.618	STEEL SHEET PILING (PERMANENT)	SF	37,938		
2501.515	12" RC PIPE APRON	EACH	1		
2501.515	15" RC PIPE APRON	EACH	1		
2501.515	18" RC PIPE APRON	EACH	2		
2501.515	24" RC PIPE APRON	EACH	5		
2501.515	27" RC PIPE APRON	EACH	1		
2501.515	30" RC PIPE APRON	EACH	1		

ITEM NO.	ITEM DESCRIPTION	<u>UNIT</u>	ESTIMATED	UNIT PRICE	EXTENSION
2501.602	REPAIR CULVERT END	EACH	1		
2501.603	CONCRETE BEDDING	LF	40		
2501.603	REINFORCED CONCRETE BEDDING	LF	24		
2502.602	8" PVC PIPE DRAIN CLEANOUT	EACH	28		
2502.603	DRAIN TILE	LF	8,089		
2503.511	4" PVC PIPE SEWER	LF	26		
2503.511	6" PVC PIPE SEWER	LF	52		
2503.511	10" PVC PIPE SEWER	LF	26		
2503.511	6" C900 PVC PIPE SEWER	LF	84		
2503.541	12" RC PIPE SEWER DES 3006 CL V	LF	49		
2503.541	15" RC PIPE SEWER DES 3006 CL V	LF	4,040		
2503.541	18" RC PIPE SEWER DES 3006 CL V	LF	312		
2503.541	24" RC PIPE SEWER DES 3006 CL III	LF	445		
2503.541	24" RC PIPE SEWER DES 3006 CL V	LF	252		
2503.541	27" RC PIPE SEWER DES 3006 CL III	LF	22		
2503.541	30" RC PIPE SEWER DES 3006 CL V	LF	73		
2503.541	42" RC PIPE SEWER DES 3006 CL III	LF	81		
2503.541	60" RC PIPE SEWER DES 3006 CL III	LF	478		
2503.602	6" PVC BACKWATER VALVE	EA	3		
2503.602	INTERNAL MANHOLE CHIMNEY SEAL	EACH	15		

ITEM NO.	ITEM DESCRIPTION	<u>UNIT</u>	ESTIMATED	UNIT PRICE	EXTENSION
2504.602	16"X8" TEE FITTING	EACH	1		
2504.602	HYDRANT	EACH	5		
2504.602	ADJUST VALVE BOX	EACH	15		
2504.602	6"X6" TEE FITTING	EACH	1		
2504.602	8"X6" TEE FITTING	EACH	1		
2504.602	6" GATE VALVE & BOX	EACH	6		
2504.602	8" GATE VALVE & BOX	EACH	1		
2504.602	RELOCATE CURB STOP & BOX	EACH	1		
2504.602	ADJUST CURB BOX	EACH	6		
2504.602	REVISE IRRIGATION SYSTEM	EACH	3		
2504.603	6" WATERMAIN DUCTILE IRON CL 52	LF	71		
2504.603	8" WATERMAIN DUCTILE IRON CL 52	LF	68		
2504.603	WATERMAIN ENCASEMENT	LF	179		
2504.604	6" POLYSTYRENE INSULATION	SY	756		
2504.608	DUCTILE IRON FITTINGS	LB	319		
2506.502	CONST DRAINAGE STRUCTURE DESIGN G	EACH	1		
2506.502	CATCH BASIN DESIGN SPEC	EACH	50		
2506.502	CONST DRAINAGE STRUCTURE DES 48-4020	EACH	23		
2506.502	CONST DRAINAGE STRUCTURE DES 60-4020	EACH	3		
2506.502	CONST DRAINAGE STRUCTURE DES 72-4020	EACH	2		

ITEM NO.	ITEM DESCRIPTION	<u>UNIT</u>	ESTIMATED	UNIT PRICE	<u>EXTENSION</u>
2506.502	CONST DRAINAGE STRUCTURE DES 84-4020	EACH	1		
2506.502	CONST DRAINAGE STRUCTURE DES 96-4020	EACH	6		
2506.516	CASTING ASSEMBLY	EACH	2		
2506.522	ADJUST FRAME & RING CASTING	EACH	12		
2506.602	RECONSTRUCT MANHOLES	EACH	8		
2506.602	RECONSTRUCT DRAINAGE STRUCTURE	EACH	1		
2506.602	CONST DRAINAGE STRUCTURE DESIGN SPEC 1	EACH	3		
2506.602	STANDARD CATCH BASIN	EACH	80		
2511.501	RANDOM RIPRAP CLASS III (P)	CY	61		
2511.511	GRANULAR FILTER (P)	CY	5.1		
2521.501	4" CONCRETE WALK	SF	16,065		
2521.501	6" CONCRETE WALK	SF	4,376		
2521.501	8" CONCRETE WALK	SF	948		
2521.501	4" CONCRETE WALK SPECIAL 1	SF	10,317		
2531.501	CONCRETE CURB & GUTTER DESIGN B424	LF	20,699		
2531.501	CONCRETE CURB & GUTTER DESIGN B612	LF	306		
2531.501	CONCRETE CURB & GUTTER DESIGN B618	LF	358		
2531.501	CONCRETE CURB & GUTTER DESIGN D412	LF	105		
2531.602	CONCRETE MEDIAN NOSE	EACH	11		
2531.618	TRUNCATED DOMES	SF	493		

ITEM NO.	ITEM DESCRIPTION	<u>UNIT</u>	ESTIMATED	UNIT PRICE	<u>EXTENSION</u>
2533.507	PORTABLE PRECAST CONCR BARRIER DES 8337	LF	7,678		
2533.508	RELOCATE PORT PRECAST CONC BAR DES 8337	LF	8,044		
2540.602	INSTALL MAIL BOX SUPPORT	EACH	5		
2540.603	LANDSCAPE EDGER	LF	206		
2545.511	LIGHTING UNIT TYPE SPECIAL	EACH	1		
2545.515	LIGHT FOUNDATION DESIGN E MODIFIED	EACH	1		
2545.523	2" NON-METALLIC CONDUIT	LF	110		
2545.531	UNDERGROUND WIRE 1 COND NO 6	LF	330		
2545.602	INSTALL LIGHTING UNIT	EACH	2		
2550.602	INSTALL WOOD POST	EACH	2		
2554.501	TRAFFIC BARRIER DESIGN SPECIAL	LF	25		
2554.501	TRAFFIC BARRIER DESIGN B8338	LF	75		
2554.523	END TREATMENT-ENERGY ABSORBING TERMINAL	EACH	1		
2554.615	IMPACT ATTENUATOR	AMBY	12		
2554.615	RELOCATE IMPACT ATTENUATOR	AMBY	7		
2557.501	WIRE FENCE DESIGN SPECIAL VINYL COATED	LF	3,258		
2557.516	PEDESTRIAN GATE DESIGN SPECIAL	EACH	12		
2557.517	VEHICULAR GATE-DOUBLE	EACH	1		
2557.602	INSTALL ORNAMENTAL METAL GATE	EACH	2		
2557.603	TEMPORARY FENCE DESIGN SPECIAL	LF	550		

ITEM NO.	ITEM DESCRIPTION	<u>UNIT</u>	ESTIMATED	UNIT PRICE	<u>EXTENSION</u>
2557.603	WOODEN FENCE	LF	2,610		
2557.603	INSTALL CHAIN LINK FENCE	LF	30		
2557.603	FENCE, CEDAR SPLIT RAIL	LF	155		
2563.601	TRAFFIC CONTROL	LS	1		
2563.602	PORTABLE CONCRETE BARRIER DELINEATOR	EACH	770		
2563.610	POLICE OFFICER	HOUR	40		
2563.613	PORTABLE CHANGEABLE MESSAGE SIGN	UDAY	96		
2563.618	CONSTRUCTION SIGN-SPECIAL	SF	112		
2564.531	SIGN PANELS TYPE C	SF	253.65		
2564.550	DELINEATOR TYPE X4-13	EACH	2		
2564.550	SIGN TYPE SPECIAL	EACH	6		
2564.552	HAZARD MARKER X4-2	EACH	8		
2564.602	INSTALL SIGN	EACH	2		
2564.602	INSTALL SIGN TYPE SPECIAL	EACH	2		
2565.601	TRAFFIC CONTROL INTERCONNECTION	LS	1		
2565.616	REVISE SIGNAL SYSTEM	SYS	1		
2571.501	CONIFEROUS TREE 6' HT B&B	TREE	106		
2571.502	DECIDUOUS TREE 1.75" CAL BR	TREE	27		
2571.502	DECIDUOUS TREE 2.5" CAL B&B	TREE	96		
2571.504	CONIFEROUS SHRUB 2.5' HT CONT	SHRB	9		

ITEM NO.	ITEM DESCRIPTION	<u>UNIT</u>	ESTIMATED	UNIT PRICE	<u>EXTENSION</u>
2571.505	DECIDUOUS SHRUB 2.5' HT CONT	SHRB	21		
2571.505	DECIDUOUS SHRUB 3' HT CONT	SHRB	46		
2571.507	PERENNIAL NO 1 CONT	PLT	2,431		
2571.507	PERENNIAL NO 2 CONT	PLT	625		
2573.502	SILT FENCE, TYPE HI	LF	10,262		
2573.530	STORM DRAIN INLET PROTECTION	EACH	215		
2573.533	SEDIMENT CONTROL LOG TYPE COMPOST	LF	2,529		
2573.550	EROSION CONTROL SUPERVISOR	LS	1		
2573.602	TEMPORARY ROCK CONSTRUCTION ENTRANCE	EACH	4		
2574.525	FILTER TOPSOIL BORROW SPECIAL	CY	1,849		
2574.525	LOAM TOPSOIL BORROW	CY	4,481		
2575.505	SODDING TYPE LAWN	SY	6,341		
2575.513	MULCH MATERIAL TYPE 6	CY	214		
2575.513	MULCH MATERIAL TYPE 9	CY	474		
2575.571	RAPID STABILIZATION METHOD 3	MGAL	17.41		
2575.572	RAPID STABILIZATION METHOD 4	SY	4,596		
2582.501	PAVT MSSG PAINT	SF	64		
2582.501	PAVT MSSG PREFORM TAPE GROUND IN	SF	176		
2582.502	6" DOTTED LINE WHITE-PAINT	LF	57		
2582.502	4" SOLID LINE WHITE-PAINT	LF	1,744		

ITEM NO.	ITEM DESCRIPTION	<u>UNIT</u>	ESTIMATED	UNIT PRICE	EXTENSION	
2582.502	4" BROKEN LINE WHITE-PAINT	LF	2,200			
2582.502	4" SOLID LINE YELLOW-PAINT	LF	890			
2582.502	4" DOTTED LINE YELLOW-PAINT	LF	1,953			
2582.502	4" DOUBLE SOLID LINE YELLOW-PAINT	LF	18,929			
2582.502	8" SOLID LINE WHITE-EPOXY	LF	200			
2582.502	4" BROKEN LINE WHITE-EPOXY	LF	2,745			
2582.502	4" SOLID LINE WHITE-EPOXY-GR IN	LF	950			
2582.502	4" DBLE SOLID LINE YELLOW-EPOXY- GR IN	LF	645			
2582.503	CROSSWALK PREF THERMO GR IN	SF	450			
		2016-201 PROJECT TOTAL =				

My commission expires _____

Insert Attachment A Responsible Contractor Certification of Compliance Here

CONTRACT

THIS AGREEMENT, made on the day of	
2016, by and between the CITY OF BLOOMINGTON, party of th	
called the CITY, and par	ty of the second part,
hereinafter called the CONTRACTOR.	
WITNESSETH, that the Contractor and the City, for the cons	iderations hereinafter
named, agree as follows:	

I. <u>SCOPE OF WORK</u>

The Contractor hereby agrees to furnish all of the materials, equipment and labor necessary, and to perform all of the Work shown on the Plans and described in the Specifications for the Project entitled:

2016-201 Normandale Street Improvement Project

in accordance with the requirements and provisions of the Contract Documents as defined in the General Specifications which are hereby made a part of this Agreement.

II. TIME OF COMPLETION

The Work to be performed under this Contract shall be commenced within eight (8) calendar days after the date of written notice by the City to the Contractor to proceed. The construction of the improvements shall be completed as specified in the Special Provisions.

III. PAYMENT

A. The Contract Sum - The City shall pay to the Contractor, for the duration of the Agreement the amounts determined for the total number of units of Work completed at the unit price stated in the attached Bid Proposal. The number of units contained in this Bid Proposal is an approximation only, and the final payment shall be made for the actual number of units that are installed, constructed or otherwise incorporated as part of the Work covered by the Agreement.

B. Progress Payments

1. The City Engineer shall prepare an estimate covering the total quantities under each item of Work that has been completed from the start of the job, up to and including the last day of the preceding month, and the value of the Work completed, determined in accordance with the schedule of unit prices for such items, on or not later than the fifth (5th) day of each month. This estimate shall also include an allowance for the cost of such materials and equipment required to perform the permanent Work as has been delivered to the site and suitably protected by the Contractor but not as yet incorporated in the Work.

- 2. The City shall pay to the Contractor an amount which, together with previous payments, equals 95% of the amount of the monthly estimate of the City Engineer, not later than the fifteenth (15th) day of the month.
- 3. Upon the determination of the City Engineer that the Work of the project is 95% or more completed, the City shall release such portions of the retained contract price as the City Engineer determines are not required to be retained to protect the City's interest in satisfactory completion of the Agreement.

IV. ACCEPTANCE AND FINAL PAYMENT

- A. Upon receipt of written notice that the Work is ready for final inspection and acceptance, the City Engineer shall within ten (10) days make such inspection. When he/she finds the Work acceptable under the Contract and the Contract fully performed, he/she will issue a final estimate (i.e., final pay application or final payment). The final estimate shall constitute final acceptance and serve as the final certificate for the project.
- B. Before final payment is due, the Contractor shall submit evidence satisfactory to the City Engineer that all payrolls, material bills, and other indebtedness connected with the Work have been paid, except that in case of disputed indebtedness of liens the Contractor may submit in lieu of evidence of payment a surety bond satisfactory to the City guaranteeing payment of all such disputed amounts when adjudicated in cases where such payment has not already been guaranteed by Surety Bond.
- C. The making and acceptance of the final payment shall constitute a waiver of all claims by both parties, other than those arising from:
 - 1. Unsettled liens:
 - 2. From faulty Work appearing within 12 months after final payment;
 - 3. From requirements of the specifications, or from manufacturers' guarantee; and/or
 - 4. Claims previously made and still unsettled.

V. AUDIT

All books, records, documents and accounting procedures and practices of the Contractor relevant to this Contract shall, pursuant to Minn. Stat. § 16C.05, subd. 5 be subject to examination at all times by the City, and as appropriate, by either the legislative or state auditor.

VI. PRIORITY

If there is a conflict or inconsistency between this Agreement and the Specifications and Special Provisions, the parties agree to the following priority of documents:

- A. This Agreement.
- B. Special Provisions and Specifications

VII. INDEPENDENT CONTRACTOR

It is agreed that nothing herein contained is intended or should be construed in any manner as creating or establishing the relationship of copartners between the parties hereto or as constituting the Contractor's staff as the agents, representatives or employees of the City for any purpose in any manner whatsoever. The Contractor and its staff are to be and shall remain an independent Contractor with respect to all services performed under this Agreement. The Contractor represents that it has, or will secure at its own expense, all personnel required in performing services under this Agreement. Any and all personnel of the Contractor or other persons, while engaged in the performance of any work or services required by the Contractor under this Agreement shall not be considered employees of the City, and any and all claims that may or might arise under the Workers' Compensation Act of the State of Minnesota on behalf of said personnel or other persons while so engaged, and any and all claims whatsoever on behalf of any such person or personnel arising out of employment or alleged employment including, without limitation, claims of discrimination against the Contractor, its officers, agents, contractors or employees shall in no way be the responsibility of the City; and the Contractor shall defend, indemnify and hold the City, its officers, agents and employees harmless from any and all such claims regardless of any determination of any pertinent tribunal, agency, board, commission or court. Such personnel or other persons shall not require nor be entitled to any compensation, rights or benefits of any kind whatsoever from the City, including, without limitation, tenure rights, medical and hospital care, sick and vacation leave, Workers' Compensation, Unemployment Compensation, disability, severance pay and PERA.

VIII. MISCELLANEOUS

- A. The Contractor shall furnish within seven (7) days after notice of acceptance of the bid two (2) bonds, a performance and payment bond, each in the amount of the full contract price, and in compliance with State statutes to guarantee the faithful performance of the Contract and the payment of all labor, mechanics, subcontractors and material. In addition to the term of this Agreement, the performance bond shall cover an additional one (1) year period after final acceptance by the City, with respects to faulty workmanship and materials. Both bonds shall be furnished by a corporate surety company authorized to do business in the state of Minnesota and acceptable to the City subject to the approval of the City Attorney as to form.
- B. To the fullest extent allowed by law the Contractor shall defend, indemnify and hold harmless the City of Bloomington, its officials, employees and agents, from any and all claims, causes of action, lawsuits, damages, losses, or expenses, including attorney fees, arising out of or resulting from the Contractor's (including its officials, agents, or employees) performance of the duties required under this Agreement, provided that any such claim, damages, loss or expense is attributable to bodily injury, sickness, diseases or death or to injury to or destruction of property including the loss of use resulting therefrom and is caused in whole or in part by any negligent act or omission or willful misconduct of Contractor.

- C. The Contractor shall not commence work under this Contract until all insurance required under this article has been obtained and until copies of policies and certificates required by this article are submitted to: Office of the City Clerk, 1800 West Old Shakopee Road, Bloomington, MN 55431. The Contractor shall not allow any subcontractor to commence work on the project until subcontractor's insurance has been obtained and submitted to the Contractor. The Contractor will require the subcontractor to have the same policy requirements as listed below, and where applicable will require the subcontractor to provide a certificate of insurance and an actual policy endorsement that names the City and County as an additional insured on the subcontractor's policies.
 - 1. Commercial General Liability and Property Damage Insurance.

The Contractor shall take out and maintain at its own cost and expense, commercial general liability and property damage insurance, during the period from the commencement until final completion of the any and all work under this contract. To the fullest extent allowed by law, said insurance shall protect the Contractor, any subcontractor performing work covered by the Contract, and the City from claims for any injury or property damage which may arise from operations under this Contract, whether operations be made by the Contractor, subcontractor, or by anyone directly or indirectly employed by either of them. This also includes claims arising by reason of any injury or damage sustained after the Contractor has completed the work or left the site thereof. The commercial general liability insurance shall be in the following amounts:

Bodily injury in the amount of at least \$1,500,000 per occurrence and \$1,500,000 for injuries or death arising out of each occurrence.

Property damage liability in the amount of \$1,500,000 for each occurrence.

To meet the above requirements, the Contractor may use a combination of Commercial General Liability and Umbrella coverage, as long as the City approves such use and it is evidenced on the Certificate of Insurance naming the City as an additional insured on both policies. The Umbrella needs to be a following form coverage and provide a thirty (30) day notice of cancellation.

2. Worker's Compensation Insurance and Employer's Liability.

The Contractor shall carry Worker's Compensation Insurance as required by Minnesota Statutes, Section 176.181 subd 2.

Employer's Liability – Bodily injury by:

Accident – Each Accident \$500,000 Disease – Policy Limit \$500,000 Disease – Each Employee \$500,000

3. Business Automobile Liability Insurance.

Contractor shall secure and maintain during the life of this Contract business automobile liability insurance in the minimum amount of \$1,500,000 for bodily injuries, including death, per occurrence; and automobile property damage insurance in the minimum amount of \$1,500,000. Each motor vehicle, including hired vehicles, engaged in operation within the terms of this Contract shall be covered by such automobile insurance.

4. Professional Liability

Per Claim \$1,500,000 Aggregate \$2,000,000

5. Certificates.

The Contractor further agrees to name the City and County as additionally insured on the commercial general liability and business automobile liability insurance policies. Copies of all certificates, endorsements and policies, naming the City as additionally insured, shall be filed with the City Clerk. The certificates shall be executed by the insurer and shall expressly stipulate that the policies are non-cancelable until after thirty (30) days notice in writing to the City. The canceling company and/or the replacing company shall be responsible for all work completed prior to the cancellation of policies. All insurance policies and certificates shall be submitted prior to the execution of the Contract and shall be subject to the approval of the City Attorney.

- D. In the event of a dispute between the City and the Contractor, the parties hereto agree that the City Engineer shall determine the amount and quality of work in the Improvements included in the Contract. If no agreement can be reached, the City and the Contractor agree to submit all claims, disputes and other matters in question between the parties arising out of or relating to this Agreement to mediation. The mediation shall be conducted through the Conflict Resolution Center, 2101 Hennepin Avenue, Suite 100, Minneapolis, MN 55405. The parties hereto shall decide whether mediation shall be binding or non-binding. If the parties cannot reach agreement, mediation shall be non-binding. In the event mediation is unsuccessful, either party may exercise its legal or equitable remedies and may commence such action prior to the expiration of the applicable statute of limitations.
- E. The Contractor agrees to comply with the Americans with Disabilities Act (ADA), Section 504 of the Rehabilitation Act of 1973 and not discriminate on the basis of disability in the admission or access to, or treatment of employment in its services, programs, or activities. The Contractor agrees to hold harmless and indemnify the City from costs, including but not limited to damages, attorney's fees and staff time, in any action or proceeding brought alleging a violation of ADA and/or Section 504 caused by the Contractor. Upon request accommodation will be provided to allow individuals with disabilities to participate in all services, programs and activities. The City has designated coordinators to facilitate compliance with the Americans with Disabilities Act of 1990, as required by Section 35.107 of the U.S. Department of Justice regulations, and to coordinate compliance with Section 504 of the Rehabilitation Act of 1973, as mandated by Section 8.53 of the U.S. Department of Housing and Urban Development regulations.
- F. The parties agree to comply with the Minnesota State Human Rights Act, Minnesota Statutes, Section 363A, as amended.

- G. The parties hereto agree to comply with Section 504 of the Rehabilitation Act of 1973/31 CFR Part 51. This Act states in part that, "...all recipients of federal funds, whether in the form of a grant or a contract, review, and if necessary modify, their programs and activities so that discrimination based on handicap is eliminated."
- H. The Contractor will comply with all applicable provisions of the Minnesota Government Data Practices Act, Chapter 13 of the Minnesota Statutes.
- I. The Contractor agrees that the City will own and have the right to use, reproduce and apply as it desires, any data, reports, analyses and materials which are collected or developed by the Contractor or anyone acting on behalf of the Contractor as a result of this Agreement.
- J. The Contractor agrees that it must pay any subcontractor within ten (10) days of the Contractor's receipt of payment from the City for undisputed services provided by the subcontractor. The Contractor agrees to pay interest of 1-1/2 percent per month, or any part of a month, to the subcontractor on any undisputed amount not paid on time to the subcontractor. The minimum monthly interest penalty payment for an unpaid balance of \$100 or more is \$10. For an unpaid balance of less than \$100, the prime Contractor shall pay the actual penalty due to the subcontractor. A subcontractor who prevails in a civil action to collect interest penalties from a prime Contractor must be awarded its costs and disbursements, including attorneys fees, incurred in bringing the action.
- K. Any material alterations, variations, modifications or waivers of provisions of this Agreement shall be valid only when they have been reduced to writing as an amendment to this Agreement and signed by both parties.
- L. Either party may terminate this Agreement, for any reason, upon giving thirty (30) days advanced written notice to the other party.
 - The City reserves the right to cancel this Agreement at any time in event of default or violation by the Contractor of any provision of this Agreement. The City may take whatever action at law or in equity that may appear necessary or desirable to collect damages arising from a default or violation or to enforce performance of this Agreement.
- M. This Agreement shall not be assignable except at the written consent of the City.
- N. This Agreement represents the entire Agreement between the Contractor and the City and supersedes and cancels any and all prior agreements or proposals, written or oral, between the parties relating to the subject matter hereof, and amendments, addenda, alterations, or modifications to the terms and conditions of this Agreement shall be in writing and signed by both parties.
- O. The Contractor agrees, as a condition of being awarded this Contract, to require each of its agents, officers and employees to abide by the City of Bloomington's policies prohibiting sexual harassment, firearms and smoking, as well as all other reasonable work rules, safety rules or policies regulating the conduct of persons on City property at all times while performing duties pursuant to this Contract. The Contractor agrees and understands that a violation of any of these policies or rules constitutes a breach of the Contract and sufficient grounds for immediate termination of the Contract by the City.

- P. The parties agree that this Agreement shall be governed by the laws of the State of Minnesota.
- Q. Pursuant to Chapter 2, Article VII of the City Code, the Contractor agrees as follows:
 - 1. That, in the hiring of common or skilled labor for the performance of any work under any contract, or any subcontract, no contractor, material supplier, or vendor, shall, by reason of race, creed, or color, discriminate against the person or persons who are citizens of the United States or resident aliens who are qualified and available to perform the work to which the employment relates;
 - 2. That no contractor, material supplier, or vendor, shall, in any manner, discriminate against, or intimidate, or prevent the employment of any person or persons identified in clause (1) of this section, or on being hired, prevent, or conspire to prevent, the person or persons from the performance of work under any contract on account of race, creed, or color;
 - 3. That a violation of this section is a misdemeanor; and
 - 4. That this contract may be canceled or terminated by the City, and all money due, or to become due under the contract, may be forfeited for a second or any subsequent violation of the terms or conditions of this contract.
- R. Signature/Execution: The person signing this Agreement (hereafter "Signatory") represents and warrants that the Contractor has authorized him/her to execute this Agreement on its behalf and agrees to be bound by its terms and conditions, including the agreement of the Contractor to indemnify and hold the City harmless. In the event the Contractor did not authorize the Signatory to sign on its behalf, the Signatory agrees to assume responsibility for the duties and liability of the Contractor, as set forth herein, personally.

IN WITNESS WHEREOF the parties hereto have executed this Agreement, the date and year first written above.

mst written above.				
City of Bloomington				
DATED:		By:		
		N	Mayor	
DATED:	1	By:	City Manager	
Reviewed and approved by	the City Attorney.			
City Attorney				
Contractor				
DATED:		By:		
	By: City Manager approved by the City Attorney.			
	Title of Signate	ту		
	Name of Company:			

H:\PROJECTS\2016\2016-201 Normandale Blvd\Pre Award\Specs\2016-201 Engr Construction Contract Proposal Non-Collusion Boilerplate 2016.docx

MINNESOTA DEPARTMENT OF TRANSPORTATION

CITY OF BLOOMINGTON, ENG. DIV. CONSTRUCTION PLAN FOR: STORM SEWER, GRADING, BASE, BITUMINOUS SURFACE, CURB & GUTTER, RETAINING WALLS. AND SIGNALS

BLOOMINGTON PROJECT NO. 2016-201 COUNTY PROJECT NO. 9748

LOCATED ON: CSAH 34 (NORMANDALE BLVD), FROM W. 94th ST TO 8500 BLOCK IN BLOOMINGTON

CUR

22. NORMANDALE LAKE D

AMSDEN RIDGE DR. BAY RIDGE LA.

AMSDEN RIDGE CIR

BAY RIDGE CIR

EXISTING PROPOSED PROPERTY LINE PERM. EASEMENT LINE TEMP. FASEMENT LINE ==== CURB & GUTTER LINE REMOVE CURB AND GUTTER SAN SEWER LINE SAN SEWER SERVICE LINE WATER LINE WATER SERVICE LINE WATER SRVC. LINE (ABAN.) ---- W(A) COMMUNICATION LINE - COMM -GAS LINE STORM SEWER TELEPHONE CABLE MANHOLE . 0 CATCH BASIN HYDRANT 0 0 WATER VALVE WATER VALVE IN MANHOLE 8 RAILROAD CONIFEROUS TREE DECIDUOUS TREE CLEAR AND GRUB TREE HEDGE UTILITY POLE LIGHT POLE UTILITY POLE W/ LIGHT GUY WIRE TRAFFIC SIGNAL BLOCK RETAINING WALL 00000000 00000000 WOOD RETAINING WALL TREE LINE LLL. CHAIN LINK FENCE -0-0-0-WOOD FENCE WIRE FENCE EROSION CONTROL FENCE INLET PROTECTION 0 (A) SANITARY MANHOLE STORM MANHOLE CONCRETE WALK BITUMINOUS SURFACE REMOVE CONCRETE WALK REM. BITUMINOUS SURF. CONCRETE WALK SPECIAL GRAVEL SURFACE MILL BITUMINOUS SURFACE BUILDING TOP BACK OF CURE T.B.C. HIGH POINT H.P.

THE SUBSURFACE UTILITY INFORMATION IN THIS PLAN IS UTILITY QUALITY LEVEL C. THIS QUALITY LEVEL WAS DETERMINED ACCORDING TO THE GUIDELINES OF CI/ASCE 38-02. ENTITLED "STANDARD GUIDELINES FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA."

STATE PROJ. NO. 107-020-065, 027-634-009 GROSS LENGTH 5579.00 FEET 1.057 MILES BRIDGES-LENGTH 0.00 FEET EXCEPTIONS-LENGTH 0.00 FEET 0 MILES NET LENGTH 5579.00 FEET 1.057 MILES REF. POINT STA. 113+04 TO REF. POINT STA. 168+83 FROM: 50' NORTH OF THE N.W. CORNER OF SECTION 18, 200' NORTH OF THE N.W. CORNER OF SECTION 7, T. 27, R. 24.



1 FOREST

EAST MARSH

LAKE

W. 94th ST.

BEGIN S.P. 107-020-065, 027-634-009

NORMANDALE BLVD (CSAH 34)



LOCATION

PROJECT LOCATION

COUNTY: HENNEPIN

S.6,7,18 T.027N R.24W

S.16,21,28 T.116N R.21W

DISTRICT: METRO

NORMANDALE BLVD (CSAH 34) DESIGN DESIGNATION (ROADWAY)

4. GREEN BRIAR RD

Present ADT (2016) = 27.900No. of Traffic Lanes = 4 Soil Factor = 50 Design Speed = 45 MPH RVALUE = 30 ESALS = 10,300,000

Projected ADT (2036) = 40.600No. Of Parking Lanes = 0 Projected HCADT (2036) = 3,248 (8%) Ton Design = 10 ton

Functional Classification = A-Minor Arterial-Expander Stopping Sight Distance Based On: 3.5' Height Of Eyes And 2.0' Height Of Object

DESIGN DESIGNATION (MULTI-USE TRAIL)

Design Speed = 20 MPH Stopping Sight Distance Based On: 4.50' Height Of Eyes And O' Height Of Object MINN. PROJ. NO. STPM 2716(052)

GOVERNING SPECIFICATIONS

THE 2016 EDITION OF THE MINNESOTA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR CONSTRUCTION" SHALL GOVERN

ALL TRAFFIC CONTROL DEVICES AND SIGNING SHALL CONFORM TO THE MINNESOTA MANUAL ON UNIFORM TRAFFIC CONTROL, INCLUDING THE "FIELD MANUAL FOR TEMPORARY TRAFFIC CONTROL ZONE LAYOUTS".

INDEX

SHEET NO. SHEET DESCRIPTION

1	1	TITLE SHEET
1	2-4	TITLE SHEET STATEMENT OF ESTIMATED QUANTITIES OLIANTITY TABLIL ATIONS
1	5-12	QUANTITY TABULATIONS
1	13-14	PRIVATE UTILITY TABULATION
1	15-16	ALIGNMENTS, HORIZONTAL & VERTICAL CONTROL
1		DETAILS & STANDARD PLATES
1		TYPICAL SECTIONS
1	28-34	
1	35-48	CONSTRUCTION PHASING & TRAFFIC CONTROL
1		REMOVAL PLANS
1		PROPOSED CONSTRUCTION PLANS
1	65-71	PROFILES
1	72-79	UTILITY REMOVAL PLANS
1	80-87	PROPOSED UTILITY PLANS
1		PROPOSED UTILITY PROFILES
1		STORM STRUCTURE TABULATION
1		RETAINING WALL PLANS
1	111-112	INTERSECTION GRADING PLANS
1	113-120	PEDESTRIAN CURB RAMP PLANS
1	121-128	EXISTING SIGN REMOVALS
1		SIGNING AND PVT MARKINGS PLANS
1		SIGNAL PLANS
1		INTERCONNECT PLANS
1		LIGHTING PLANS
1		LANDSCAPING PLANS
1	1/5-1//	EARTHWORK SUMMARY
1	1/8-200	CROSS SECTIONS
	THIS	S PLAN CONTAINS 204 SHEETS

DESIGN ENGINEER: I HEREBY CERTIFY THAT SHEETS 1-128 AND 162-200 WERE PREPARED BY ME OR UNDER MY DIRECT SUPERVISION

AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER

RY <	Julion	1.460		
U1 _	1	JULIE M. LONG		
DATE	5/16/16	LIC. NO	25847	

THE LAWS OF THE STATE OF MINNESOTA.

TRAFFIC ENGINEER: I HEREBY CERTIFY THAT SHEETS 129-161 WERE PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF

RV //AV	12		5	_
DATE 5/16/16	KIRK RO	BERTS LIC. NO.	48426	-
APPROVED	Walle .	0.		5/

BLOOMINGTON ENGINEER RECOMMENDED HENNEPIN COUNTY DESIGN DIV ENGINEER

PROVED		Jami	N	M	mele	5/31/
	1			HIGHWAY	ENGINEER	DATE

6/22/16 DIST. STATE AID ENGINEER: REVIEWED FOR COMPLIANCE WITH STATE AND FEDERAL AID RULES/POLICY

El	Ma	Bala	0			618
APPROVED	FOR STA	TE AID AN	ID FEDERAL	. AID	FUNDING:	[
STATE AID	ENGINEER	3				

I HEREBY CERTIFY THAT THE FINAL FIELD REVISIONS, IF ANY, OF THIS PLAN WERE MADE BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

DATE	LIC. NO.	

STATE PROJ. NO.'S 107-020-065, 027-634-009

SHEET NO. 1

OF 200

64

176

57

1744

2200

890

1953

18929

200

2745

950

645

450

lιF

LF

SF

64

176

57

1744

2200

890

1953

18929

200

2745

950

645

450

STATEMENT OF ESTIMATED QUANTITIES

1700 W 98TH ST. BLOOMINGTON MN 5543 PHONE (952) 563-8700

ENGINEERING DIVISION
PUBLIC WORKS DEPARTMENT

VISIONS RE

WHENEVER THE WORD "INCIDENTAL" IS USED IT SHALL

BASIS FOR ESTIMATED QUANTITIES

MEAN NO DIRECT PAYMENT SHALL BE MADE.

AGGREGATE BASE CLASS 5 140 LB/CU FT BITUMINOUS MIXTURES 112 LB/SQ YD/IN TACK COAT 0.05 GAL/SQ YD

NOTES:

- (7) GROUND LIGHT.
- BRICK & MORTAR MONUMENT SIGNS.
- (17) SHALL BE CAT-350, BRAKEMASTER OR X-MAS.
- (18) 60" HIGH CHAIN LINK FENCE.
- (19) STREET NAME SIGNS, SEE DETAILS.
- (20) HARDWOOD MULCH.
- (23) INCLUDES TEMP & PERM SEEDING.
- (24) TREES FURNISHED BY HENN CO.
- (25) FOR FILTRATION TRENCHES.
- (30) WITHOUT FIBEROPTIC. INCLUDES HANDHOLES, CONDUCTOR & GROUNDING.

APPROVED: SHEET: S.P. 027-634-009

DRAWN: SWD CHECKED: RPS

4 OF 200

JML

S.P. 107-020-065

2582.501 Pavt Mssg Paint

2582.502

2582.502

2582.502

2582.502

2582.502

2582.501 Pavt Mssg Preform Tape Ground In

6" Dotted Line White-Paint

4" Solid Line White-Paint

4" Solid Line Yellow-Paint

2582.502 | 4" Double Solid Line Yellow-Paint

2582.502 8" Solid Line White-Epoxy

2582.502 4" Broken Line White-Epoxy

2582.503 Crosswalk Pref Thermo Gr In

2582.502 4" Solid Line White-Epoxy-Gr In

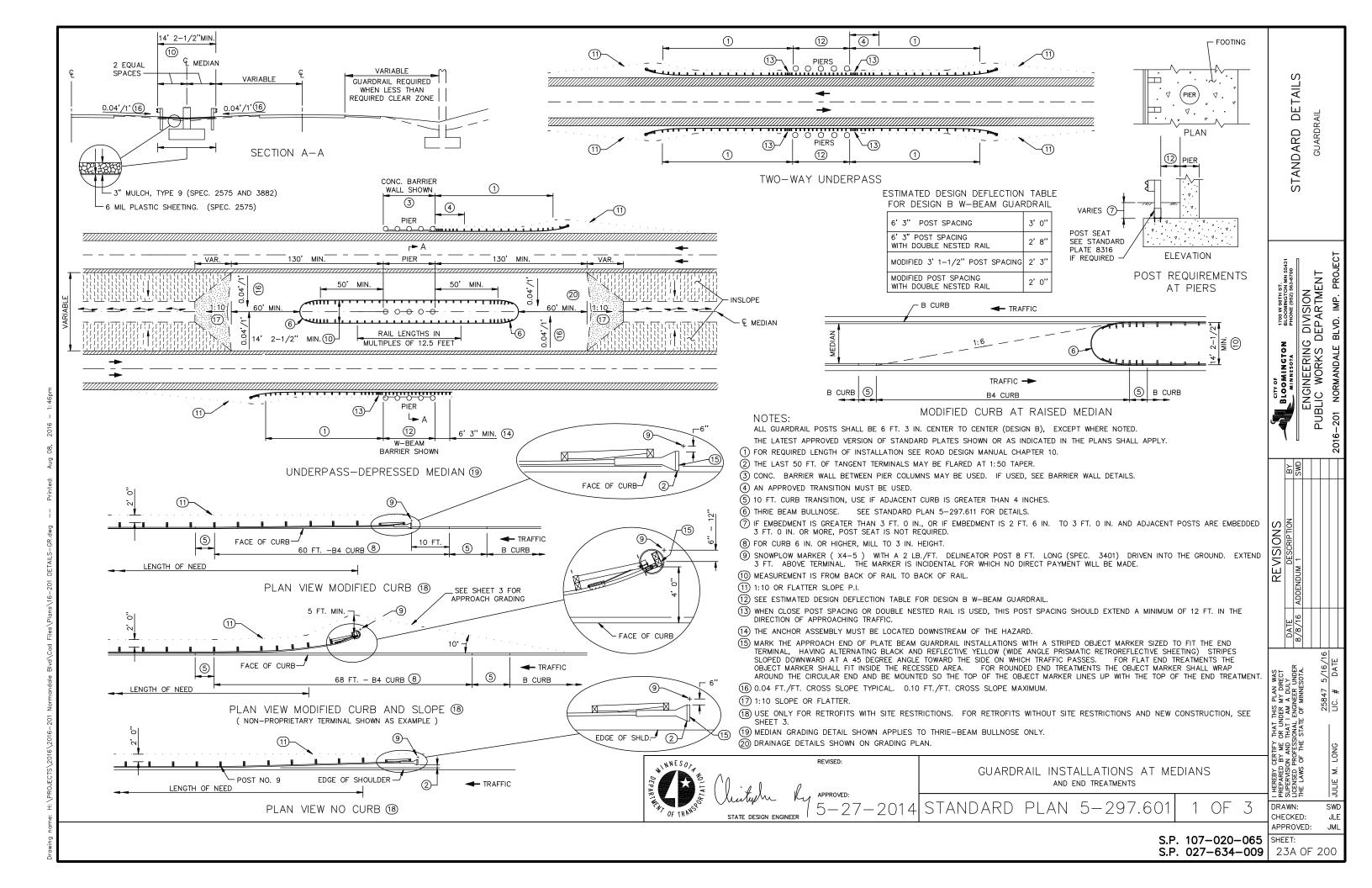
4" Dotted Line Yellow-Paint

2582.502 4" Double Solid Line Yellow-Epoxy-Gr In

4" Broken Line White-Paint

J								PROPOSED	FENCE & RETAIL	NING WALL							
OCATION				WOODEN	WIRE FENCE DES	FENCE, CEDAR	TEMP FENCE	INST CHAIN	PED GATE	VEHICULAR	TRAFFIC BARRIER	TRAFFIC BARRIER	END TRTMT	PREFAB MOD	STEEL SHEET	REINFORCED	REMARKS
LIGNMENT	STATION			FENCE	SP VINYL COATED	SPLIT RAIL	DESIGN SPEC	LINK FENCE	DESIGN SPEC	GATE-DOUBLE	DES B8338	DES SPECIAL	- E.A.T.	BLOCK WALL	PILING (PERM)	CONC CAP	
	FROM:	TO:	OFFSET	(LinFt)	(LinFt)	(LinFt)	(LinFt)	(LinFt)	(Each)	(Each)	(LinFt)	(LinFt)	(Each)	(SqFt)	(SqFt)	(LinFt)	
NORMANDALE BLVD	113+75	115+90	39' - 48' LT	216										1276			WALLA
NORMANDALE BLVD	115+65	120+85	32' - 36' RT		520									4375			WALL B
NORMANDALE BLVD	122+35	128+22	30.5' - 47.0 LT	596					1					4411			WALL C
NORMANDALE BLVD	122+70	127+85	37.5' LT											3597			WALL D
NORMANDALE BLVD	123+65	125+85	44.5' LT	j i										1542			WALLE
NORMANDALE BLVD	125+75	127+50	53.0' - 61.1' LT				175										
NORMANDALE BLVD	128+35	132+45	30.5' - 44.6' RT	430					3								
NORMANDALE BLVD	129+12	132+83	30.5' - 47.1' LT	374													
NORMANDALE BLVD	133+61	137+26	33.9' - 41.5' RT				375										
NORMANDALE BLVD	133+61	136+00	30.5' - 40.0' RT	272					3	The state of the s							
NORMANDALE BLVD	133+67	138+73	30.5' - 94.1' LT											3886			WALLF
NORMANDALE BLVD	134+25	138+22	37.5' - 45.0' LT											2908			WALL G
NORMANDALE BLVD	134+70	135+97	44.5' LT											721			WALL H
NORMANDALE BLVD	135+26		30.5' - 40.5' RT					10									
NORMANDALE BLVD	136+00	140+50	30.5' - 32.5' RT	450					2								
NORMANDALE BLVD	136+25		30.5' - 40.5' rt					10		"							
NORMANDALE BLVD	136+31	137+92	44.5' LT											1019			WALLI
NORMANDALE BLVD	136+51	136+81	61.5' lt	30					1								
NORMANDALE BLVD	137+26		30.5' - 40.5' rt					10									
NORMANDALE BLVD	138+50	145+18	33.0' - 35.0' rt											7049			WALL J
NORMANDALE BLVD	138+75	140+24	30.5' - 51.0' LT			155											
NORMANDALE BLVD	140+50	144+00	30.5' - 32.5' RT		350												
NORMANDALE BLVD	144+00	145+20	32.5' RT		120												
NORMANDALE BLVD	145+40	146+75	32.5' RT											926			WALL K
NORMANDALE BLVD	145+80	146+55	39.5' RT											425			WALL L
NORMANDALE BLVD	146+12	148+54	38.3' - 43.0' LT	242					2								
NORMANDALE BLVD	146+95	163+08	32.0' RT												37938	1615	WALL M
NORMANDALE BLVD	146+95	152+00	32.5' RT		505												
NORMANDALE BLVD	149+75	151+35	30.5' LT	j l										958			WALL N
B NORMANDALE BLVD	152+00	160+00	32.5' RT		800												
NORMANDALE BLVD	160+00	165+50	32.5' RT		550					1							
NORMANDALE BLVD	165+00	167+70	32.5'-47.0' RT		223												
NORMANDALE BLVD	166+94	168+83	22.0' - 24.5' RT		190												
NORMANDALE BLVD	167+56	168+84	21.0' - 24.0' RT								75	25	1				
											1800						
TO	TAL PROJ	ECT		2610	3258	155	550	30	12	1	75	25	-1	33093	37938	1615	

K						PROP	OSED DRAINA	3E									
OCATION				12" RC PIPE	15" RC PIPE	18" RC PIPE	24" RC PIPE	27" RC PIPE	30" RC PIPE	GRANULAR	RANDOM	DRAIN TILE	8" PVC PIPE	REMARKS		VISIONS DESCRIPTION	
LIGNMENT	STATION			APRON	APRON	APRON	APRON	APRON	APRON	FILTER	RIPRAP CL III	(8" PERF PE)	DRAIN CLEANOUT				
	FROM:	TO:	OFFSET	(Each)	(Each)	(Each)	(Each)	(Each)	(Each)	(CY)	(CY)	(LF)	(Each)				
B NORMANDALE BLVD	118+00	120+05	16' LT - 62' RT	j					Ĭ .			1619	2			RE	
B NORMANDALE BLVD	122+00	122+35	14' - 31' LT									50		WALL C TO CB 21			
B NORMANDALE BLVD	127+45	130+53	17' - 29' RT	j .								568	5			RE	
B NORMANDALE BLVD	136+76	140+37	14' - 29' RT									609	5				
B NORMANDALE BLVD	138+73	140+37	14' - 31' LT	Ī					ii :			180		WALL F TO CB 50	1		\top
B NORMANDALE BLVD	142+28		38.8' LT			1			Į.					INLET			
NORMANDALE BLVD	142+32		67.0' RT	j			1			0.8	9.2				1.	DATE 8/8/16	
B NORMANDALE BLVD	142+93		67.5' RT					1		0.9	9.9			3			Ш
B NORMANDALE BLVD	143+29	149+41	14' - 32' RT	Ĭ				já		3		1216	7				
B NORMANDALE BLVD	144+00		37.0' LT	1										INLET		ب ۲۵	
NORMANDALE BLVD	146+75	147+50	14' - 33' RT									93		WALL K TO CBMH 70		WAS RECT LY UNDE	
NORMANDALE BLVD	147+50		55.0' RT	Ĩ	1					0.3	4.8			3		ES US	
NORMANDALE BLVD	148+31		55.2' LT				1							INLET		MINITED A PLA	
B NORMANDALE BLVD	148+31		55.0' RT	1			1			0.8	9.2					동당돌을	
NORMANDALE BLVD	149+00	157+00	73' LT - 62' RT									2150	6			THAT THIS OR UNDER I THAT I AM SIONAL ENGIN: STATE OF I	
B NORMANDALE BLVD	149+77		55.0' RT				1			0.8	9.2	1				TA L	
NORMANDALE BLVD	150+92		14' - 31' LT									17		WALL N TO CB 79		SSCIP	
NORMANDALE BLVD	150+92		55.0' RT	Ţ		1				0.4	6.4						
NORMANDALE BLVD	157+00	160+08	16' LT - 62' RT									1044				A SEP	
B NORMANDALE BLVD	158+73		43.9' LT				1							INLET		REBY CERTIFY ARED BY ME (RICKISION AND VISED PROFESS) LAWS OF THE	
B NORMANDALE BLVD	159+68		55.0' RT						1	1.1	12.3			-		ERE ENS	
B NORMANDALE BLVD	160+08	162+87	14' - 28' RT	1								543	3			PREP SUPE LICEN	
																DRAWN:	
	TOTAL PRO	JECT	ECT 1			2	5	1	1	5.1	61	8089	28			CHECKED:	:
																APPROVE	D:
															S.P. 107-020-065	SHEET:	_
															S.P. 027-634-009	10 0)F 1

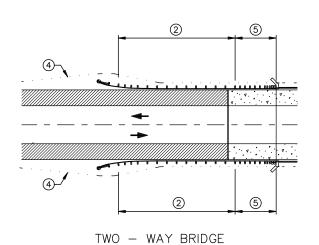


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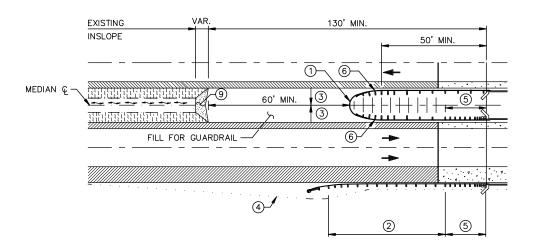
APPROVED: JML

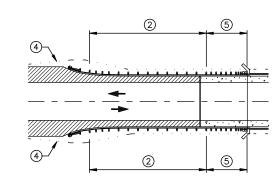
SWD

23B OF 200



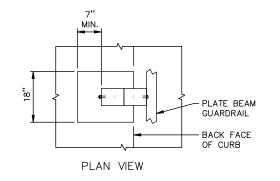
WITH FULL SHOULDERS

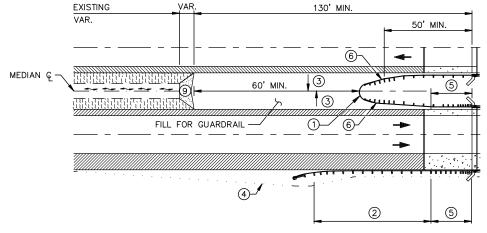


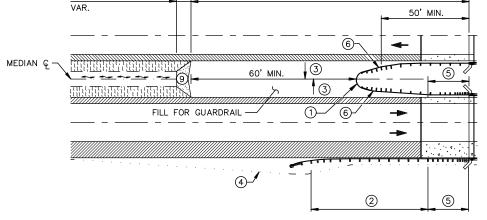


ONE — WAY BRIDGE WITH FULL RIGHT SHOULDER (FOR 14' 2-1/2" THRIE BEAM BULLNOSE)

TWO - WAY BRIDGE WITHOUT FULL SHOULDERS







ONE - WAY BRIDGE WITH FULL RIGHT SHOULDER (FOR MEDIANS WIDER THAN 14' 2-1/2" THRIE BEAM BULLNOSE)

6" X 8" X 1' 2" WOOD BLOCK -GUTTER 4" - 6" GROUT (7) 4" MAXIMUM CURB HEIGHT WOOD POST

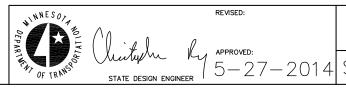
TYPICAL W-BEAM GUARDRAIL SECTION AT POST SET IN CONCRETE

ELEVATION

ALL GUARDRAIL POSTS SHALL BE 6 FT. 3 IN. CENTER TO CENTER (DESIGN B), EXCEPT WHERE NOTED.

THE LATEST APPROVED VERSION OF STANDARD PLATES SHOWN OR AS INDICATED IN THE PLANS SHALL APPLY.

- 1 THRIE BEAM BULLNOSE, SEE STANDARD PLAN 5-297.611 FOR DETAILS.
- 2) FOR THE REQUIRED LENGTH SEE ROAD DESIGN MANUAL CHAPTER 10.
- (3) 0.04 FT./FT. CROSS SLOPE TYPICAL, 0.10 FT./FT. CROSS SLOPE MAXIMUM.
- (4) 1:10 OR FLATTER SLOPE P.I.. APPROACH GRADING VARIES WITH TERMINAL TYPE. 5 PLATE BEAM GUARDRAIL ATTACHMENTS TO FIXED OBJECTS REQUIRE AN APPROVED
- TRANSITION SECTION. (6) FOR MEDIANS WIDER THAN THE 14 FT. 2-1/2 IN., BEFORE TAPERING THE APPROACH SIDE, TAPER THE OPPOSING SIDE AS SHOWN ON THE BULLNOSE DESIGN DETAIL. APPROACH TAPER SHOULD NOT EXCEED 1:25 IF THE BARRIER IS WITHIN THE SHY LINE OR 1:15
- 7 GROUT MIX (BY VOLUME: 1 PART CEMENT [TYPE 1A], 14 PARTS SAND, 5 PARTS WATER).
- 8 PLACE FRONT FACE OF W-BEAM DIRECTLY ABOVE FRONT FACE OF CURB.
- 9 1:10 SLOPE OR FLATTER.

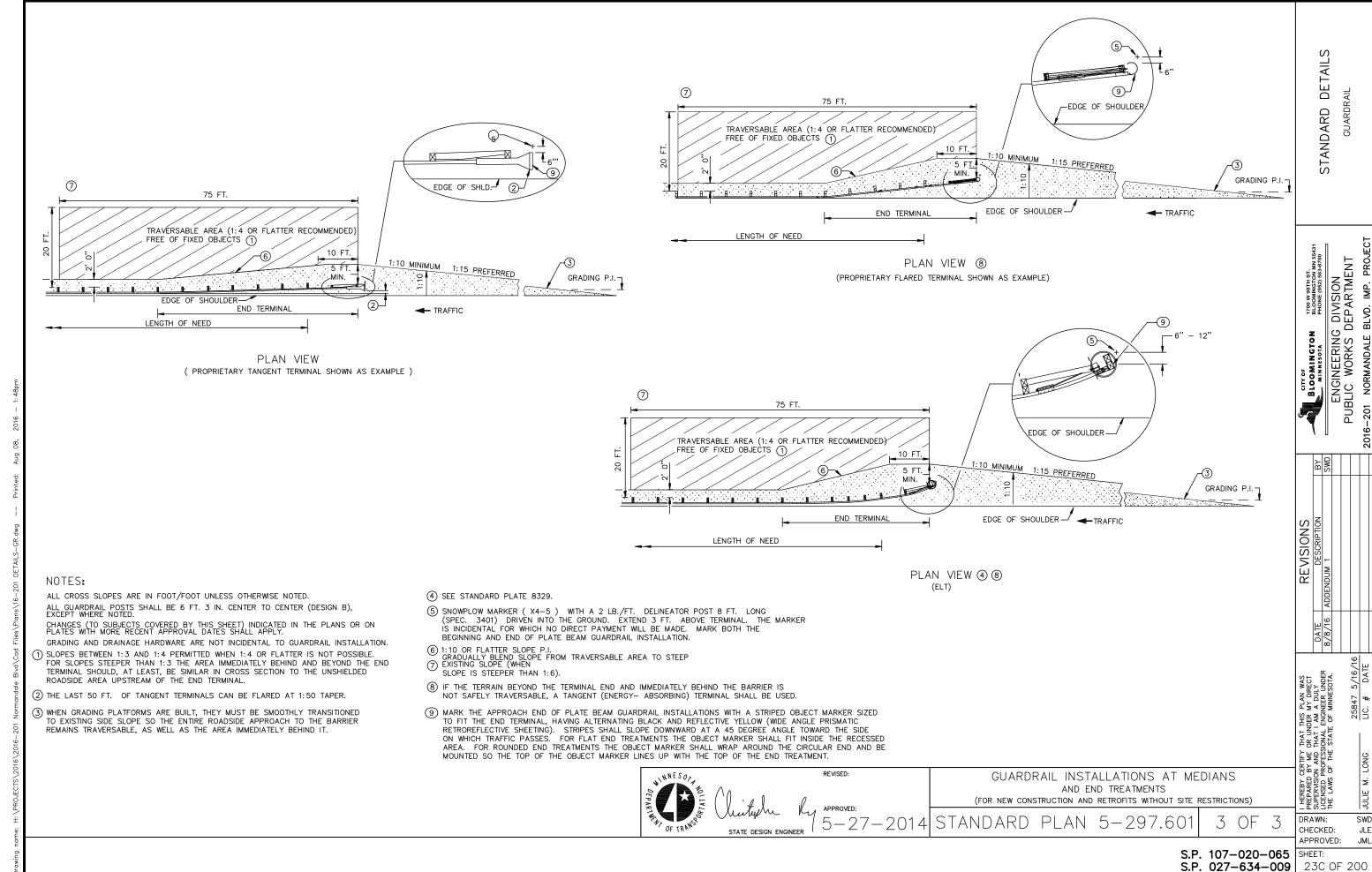


GUARDRAIL INSTALLATIONS AT MEDIANS AND END TREATMENTS

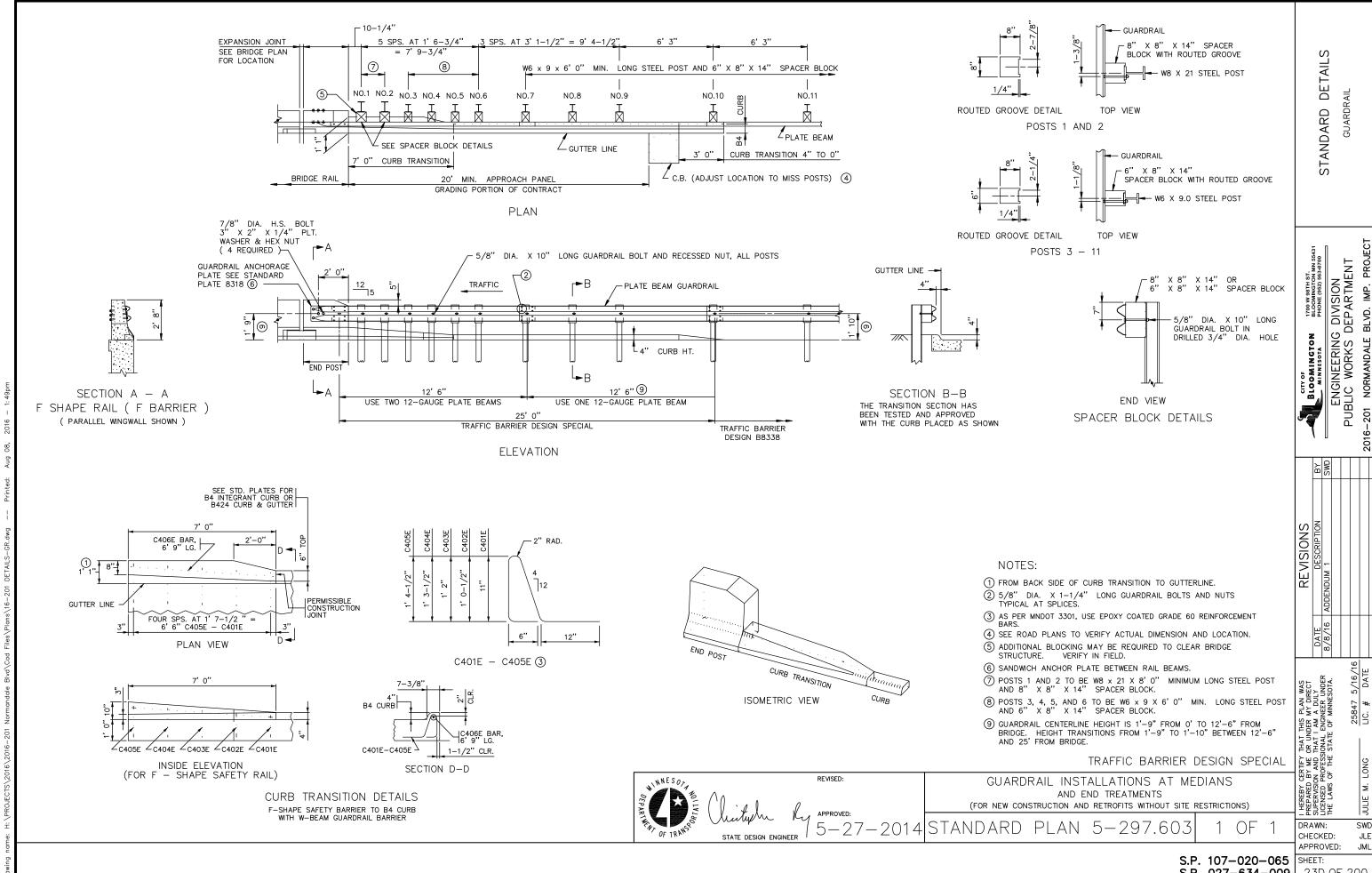
27-2014|STANDARD PLAN 5-297.601 2 OF

S.P. 107-020-065 SHEET:

S.P. 027-634-009

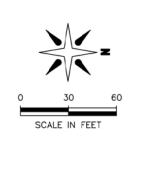


23C OF 200



S.P. 027-634-009

23D OF 200



NORMANDALE BLVD (CSAH 34) FROM STA 165+50 TO 169+14

CONSTRUCTION PLAN

1700 W 98TH ST. BLOOMINGTON MN 55431 PHONE (952) 563-8700 ENGINEERING DIVISION PUBLIC WORKS DEPARTMENT

NORMANDALE BLVD (CSAH 34) FROM STA 165+50 TO 169+14

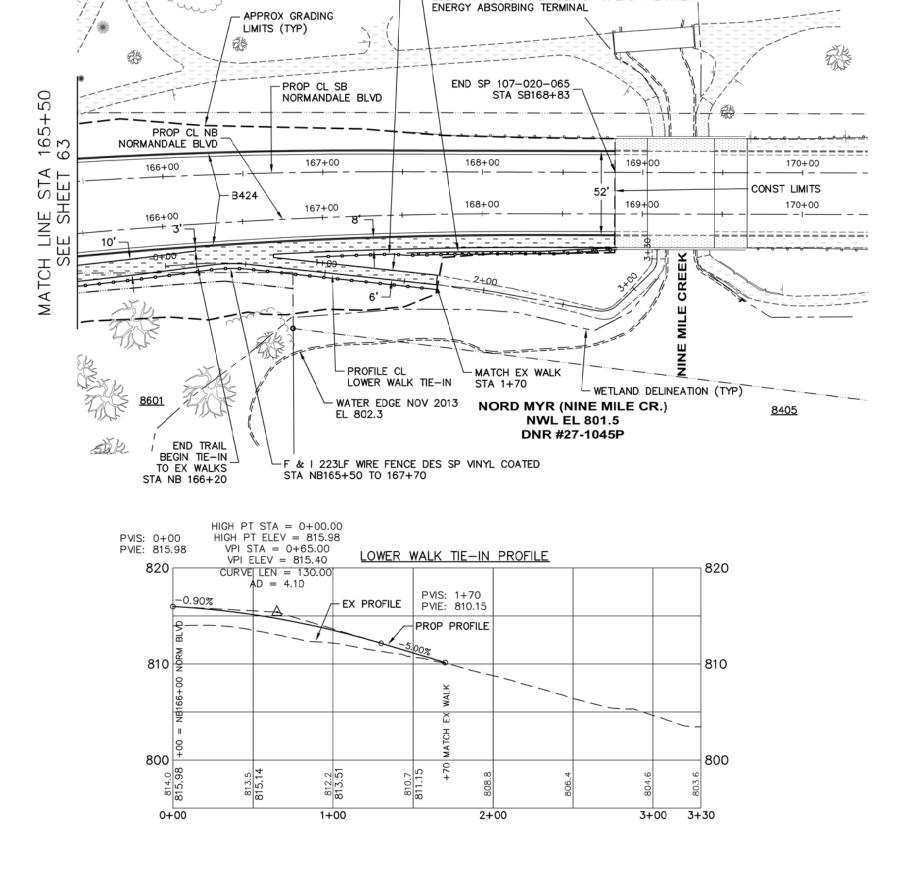
CONSTRUCTION PLAN

REVISIONS

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULT ULCENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

DRAWN: SWD CHECKED: RPS

APPROVED: JML 64 OF 200



F & I 190LF WIRE FENCE DES SP VINYL COATED

-F & I 75LF TRAFFIC BARRIER DES B8338, 25LF TRAFFIC BARRIER DES SP & END TREATMENT—

STA NB166+94 TO 168+83

<u>8550</u>

S.P. 107-020-065 SHEET: S.P. 027-634-009

